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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/775,835

02/09/2004

Yong Joo Kim

2080-3-227

1653

35884

7590

07/09/2009

LEE, HONG, DEGERMAN, KANG & WAIMEY

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EXAMINER

PESIN, BORIS M

ART UNIT

PAPER NUMBER

2174

NOTIFICATION DATE

DELIVERY MODE

07/09/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/775,835	<b>Applicant(s)</b> KIM, YONG JOO	
	<b>Examiner</b> BORIS PESIN	<b>Art Unit</b> 2174	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 March 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,4-6,9 and 11-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4-6,9 and 11-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Response to Amendment*

This communication is responsive to the amendment filed 3/25/2009.

Claims 1, 4-6, 9, and 11-14 are pending in this application. Claims 1, 13, and 24 are independent claims. In the amendment filed 3/25/2009, claims 1 and 6 were amended. This action is made Final.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 4-6, 9, and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ranagan et al. (US 6,154,771) in view of Bruckhaus (US 6,052,492).

In regards to claim 1, Ranagan teaches an editing apparatus using a thumbnail image, the editing apparatus comprising: an image processing means for processing a broadcasting stream and an image signal to permit the processed broadcasting stream

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and image signal to be displayed (Se Abstract); a display means for displaying an image (Se Abstract); a storing means for storing the broadcasting stream and the thumbnail image (See Column 29 Lines 8-21); an image extracting means for extracting the thumbnail image from the broadcasting stream while the broadcasting stream is being stored (See Abstract); wherein the plurality of thumbnail images are extracted from the broadcasting stream at each scene change point within predetermined time intervals (See Column 27, Line 59- Column 28, Line 3, while the time interval is small (15 frames or .5 seconds) it is still a time interval).

Ranagan does not specifically teach a control means for allowing a plurality of thumbnail images to be displayed on the display means according to a user's control command and such that the broadcasting stream represented by the thumbnail image can be edited. Bruckhaus teaches a control means for allowing a plurality of thumbnail images to be displayed on the display means according to a user's control command and such that the broadcasting stream represented by the thumbnail image can be edited (See Figure 8, Element 10). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Ranagan with the teachings of Bruckhaus and include the ability to edit video clips with the motivation to provide the user greater flexibility with regards to what the user wishes to watch.

In regards to claim 4, Ranagan-Bruckhaus teach the editing apparatus of claim 1, wherein the thumbnail image is extracted by using histogram information on each frame of the broadcasting stream (See Ranagan Figure 12).

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In regards to claim 5, Ranagan -Bruckhaus teach the editing apparatus of claim 1, wherein the editing of the broadcasting stream is performed by deleting, storing and moving the thumbnail image (See Bruckhaus Column 6, Lines 61-67).

Claim 6 is similar in scope to claim 1; therefore it is rejected under similar rationale.

Claim 9 is similar in scope to claim 4; therefore it is rejected under similar rationale.

Claim 10 is similar in scope to claim 3; therefore it is rejected under similar rationale.

Claim 11 is similar in scope to claim 5; therefore it is rejected under similar rationale.

In regards to claim 12, Ranagan-Bruckhaus teach the editing method of claim 6, wherein the editing of the broadcasting stream is performed concurrently with the editing of the thumbnail image. (See Bruckhaus Column 6, Line 61 – Column 7, Line 13).

In regards to claim 13, Ranagan-Bruckhaus teach the editing apparatus of claim 2, wherein the predetermined time interval is set by the user (See Ranagan claim 15).

Claim 14 is similar in scope to claim 13; therefore it is rejected under similar rationale.

### ***Response to Arguments***

Applicant's arguments filed 3/25/2009 have been fully considered but they are not persuasive.

In regards to the Applicant's arguments that Ranagan does not teach a plurality of thumbnail images are extracted from the broadcasting stream at each scene point within predetermined time intervals, the Examiner respectfully disagrees. The Applicant has not defined or limited the scope of "time interval." Ranagan teaches that scene changes are detected at a "time interval" of .5 seconds. While this time interval is small and might result in all of the scene changes being detected, the claim limitations do not limit the time interval and thus Ranagan reads of the Applicant's claim language. Furthermore, the claims do not forbid the detection of all scene changes (the likely result in Ranagan). The Examiner suggests that the Applicant amend the claims accordingly in order to narrow the scope of the claims to distinguish over Ranagan.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### ***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BORIS PESIN whose telephone number is (571)272-4070. The examiner can normally be reached on Monday-Friday except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on (571)272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Boris Pesin/  
Primary Examiner, Art Unit 2174